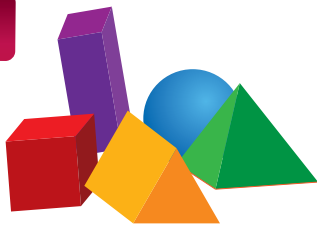
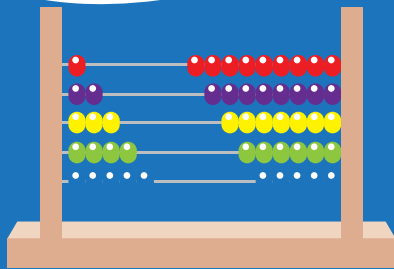


# Mental Maths

## ADDITION



# Counting On

Start with the biggest number,  
then count on.

$$8 + 3 = ?$$

Start at **8** and think:

... 9 ... 10 ... 11.

①

②

③

$$8 + 3 = 11$$



# Round or Adjust

Round one or both numbers before adding, then adjust the answer to compensate for the rounding.

$$18 + 15 = ?$$

$$(20 + 15) - 2 = 33$$

add **2** to make 20

subtract **2** to compensate for rounding

$$(35) - 2 = 33$$

$$18 + 15 = 33$$



# Use a Known Fact

Use number facts that you already know to help you.

$$12 + 11 = ?$$

KNOWN FACT:  $12 + 8 = 20$

Add **3** more to the answer because

$$11 - 8 = 3$$

$$12 + 11 = 23$$



# Use Doubles

Find a known nearby double.

$$6 + 7 = ?$$

The double of 6 is 12

$$6 + 6 = 12$$

Add **1** more to the answer

$$6 + 7 = 13$$



# Add the Parts

Break the numbers down into easier, more manageable amounts.

$$322 + 284 = ?$$

$$322 + 200 = 522$$

$$522 + 80 = 602$$

$$602 + 4 = 606$$

$$322 + 284 = 606$$



# Use Place Value

Expand the numbers into places  
before adding them.

$$48 + 13 = ?$$

$$40 + 8 + 10 + 3 = ?$$

or

$$40 + 10 + 8 + 3 = 61$$

$$48 + 13 = 61$$



# Make a Ten

Find numbers that are combinations of ten.

$$15 + 8 = ?$$

$$15 + 5 + 3 = ?$$

$$20 + 3 = 23$$

$$15 + 8 = 23$$





# Use Compatible Pairs

Find numbers that when added produce a 'tidy sum', usually ending in a zero.

$$16 + 12 + 14 = ?$$

$$16 + 14 + 12 = ?$$

$$30 + 12 = 42$$

$$16 + 12 + 14 = 42$$

